

## HEAT EXCHANGER

Publication number: GB1270568

Also published as:

Publication date: 1972-04-12

CA878266 (A)

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Classification:

- international: F24H1/16; F28D7/00; F28D7/02; F24H1/12; F28D7/00;

- European: F24H1/16C; F28D7/00K; F28D7/02D

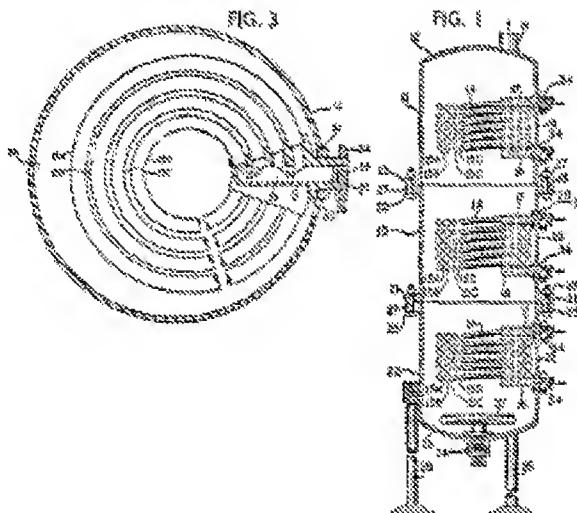
Application number: GB19690053855 19691103

Priority number(s): CA19690049332 19690421

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### Abstract of GB1270568

1,270,568. Tubular heat exchangers. H. BRANTS. 3 Nov., 1969 [21 April, 1969], No. 53855/69. Heading F4S. In a heat exchanger particularly for use in a domestic hot water system and comprising a shell made up of sections 11, 19, 22 bolted together and having heating coils 14 each comprising a series of separate concentrically disposed helically wound coils 15A-15D extending between an inlet header 17 and an outlet header 16, each header is secured to the shell by means of a threaded union 34 adapted to bear against a shoulder piece 31 which in turn bears against a shoulder 30 formed on the header. Fluid to be heated, e.g. water, enters the heat exchanger through inlet 24 from whence it is evenly distributed by means of a diffuser 37. Heated fluid leaves by way of outlet 18. Heating fluid, e.g. steam, is passed through the coils 14. Each header 16, 17 has a main fluid passageway 28 connected to the respective coils 15A-15D by way of individual passageways 29. The coils are secured within the headers by welding or brazing &c. The capacity of the heat exchanger can be varied by the addition or subtraction of bolted sections together with their associated heating coils. The inner coils 15C, 15D have a diameter which is smaller than that of the outer coils 15A, 15B.



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